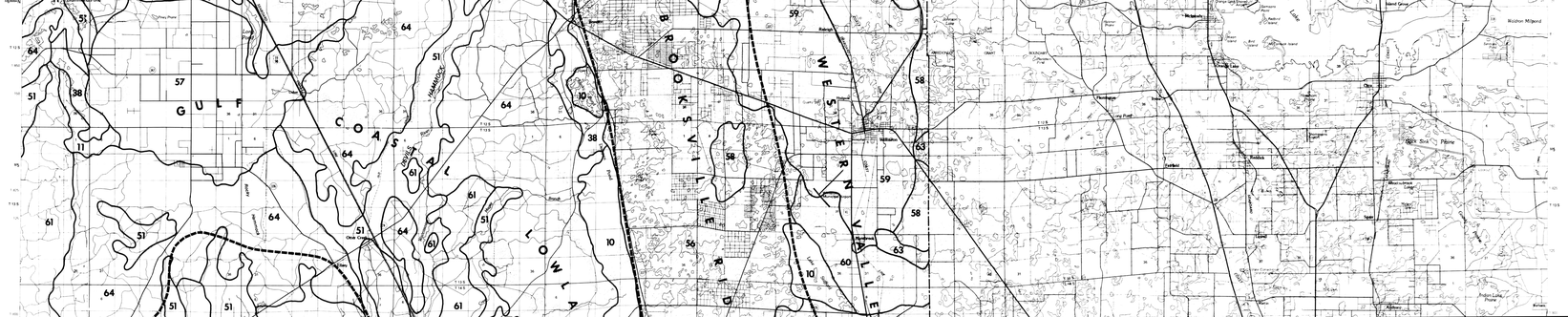
I49.89:82/47-1/map C16

MAP C16
MMS 85-0011
FWS/OBS-82/47.1

Ocala

FLORIDA ECOLOGICAL ATLAS

SOILS AND LANDFORMS



ORIGINAL

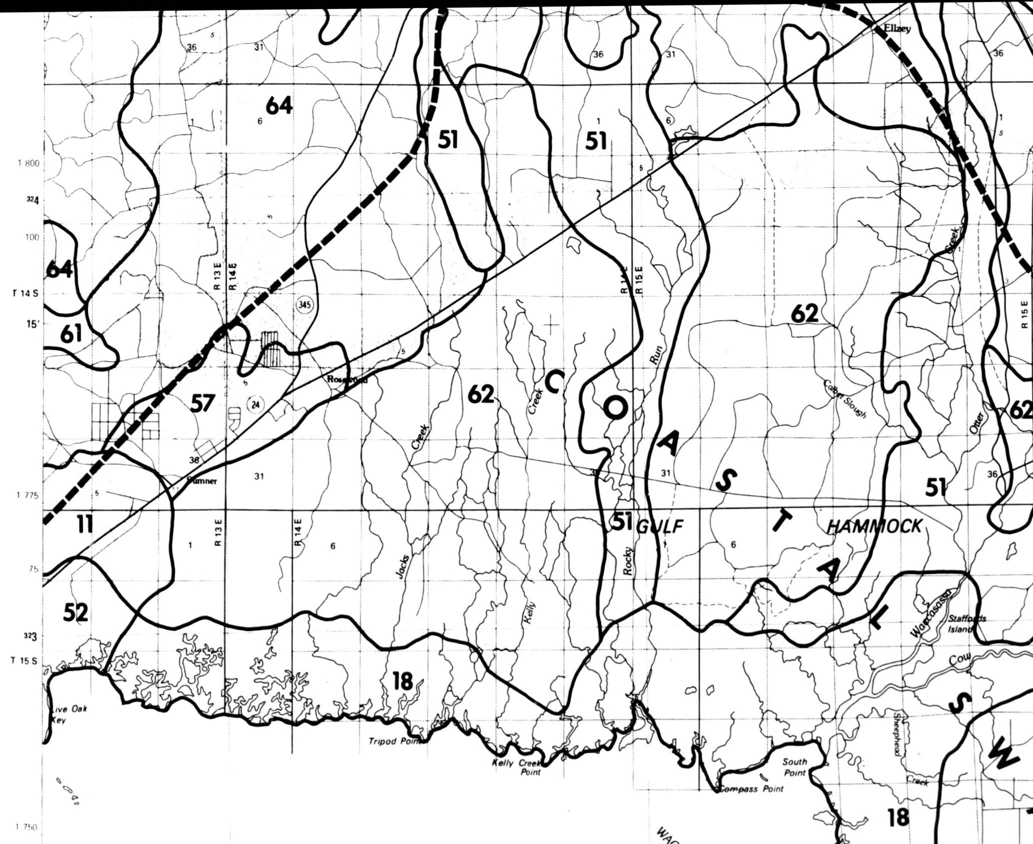
Scale 1:100 000

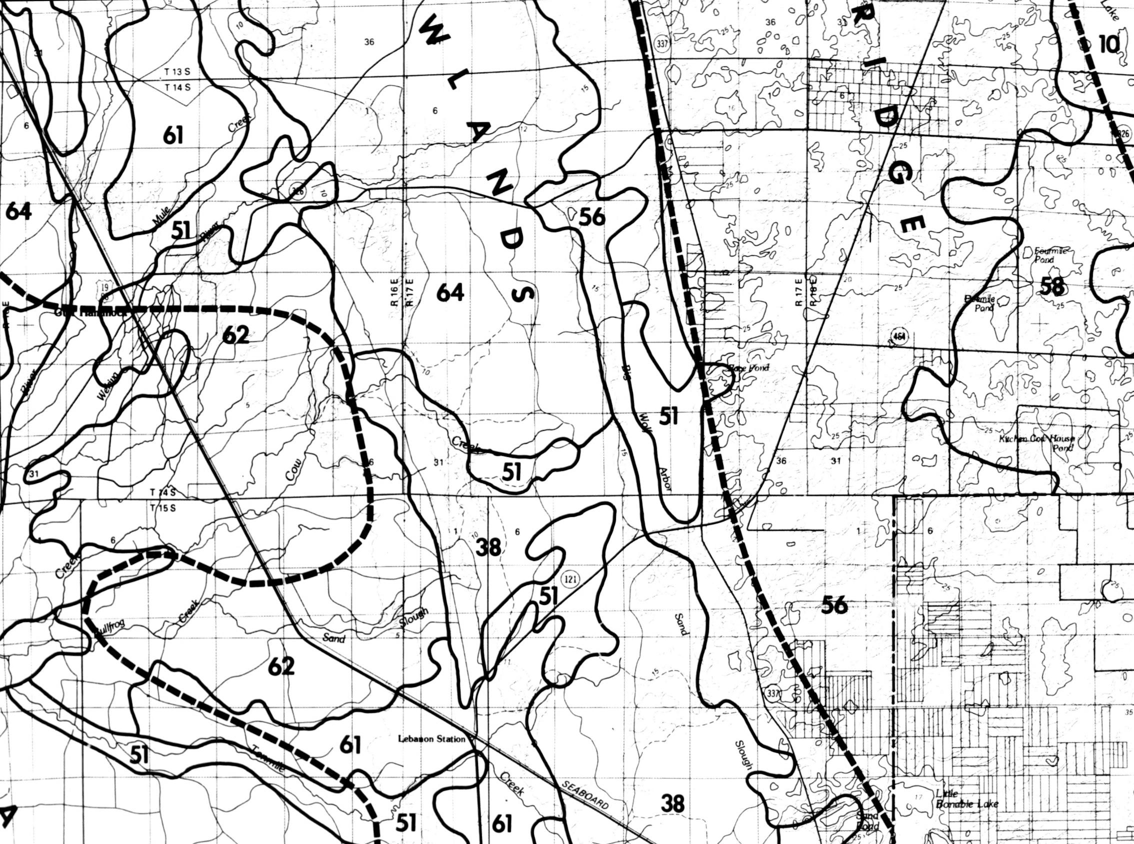
TOPICAL MAPS IN THIS ATLAS:
- A. BIOLOGICAL RESOURCES
- B. SOCIOECONOMIC FEATURES
- C. SOILS AND LANDFORMS
- D. OIL, GAS AND MINERALS
- E. HYDROLOGY AND CLIMATOLOGY

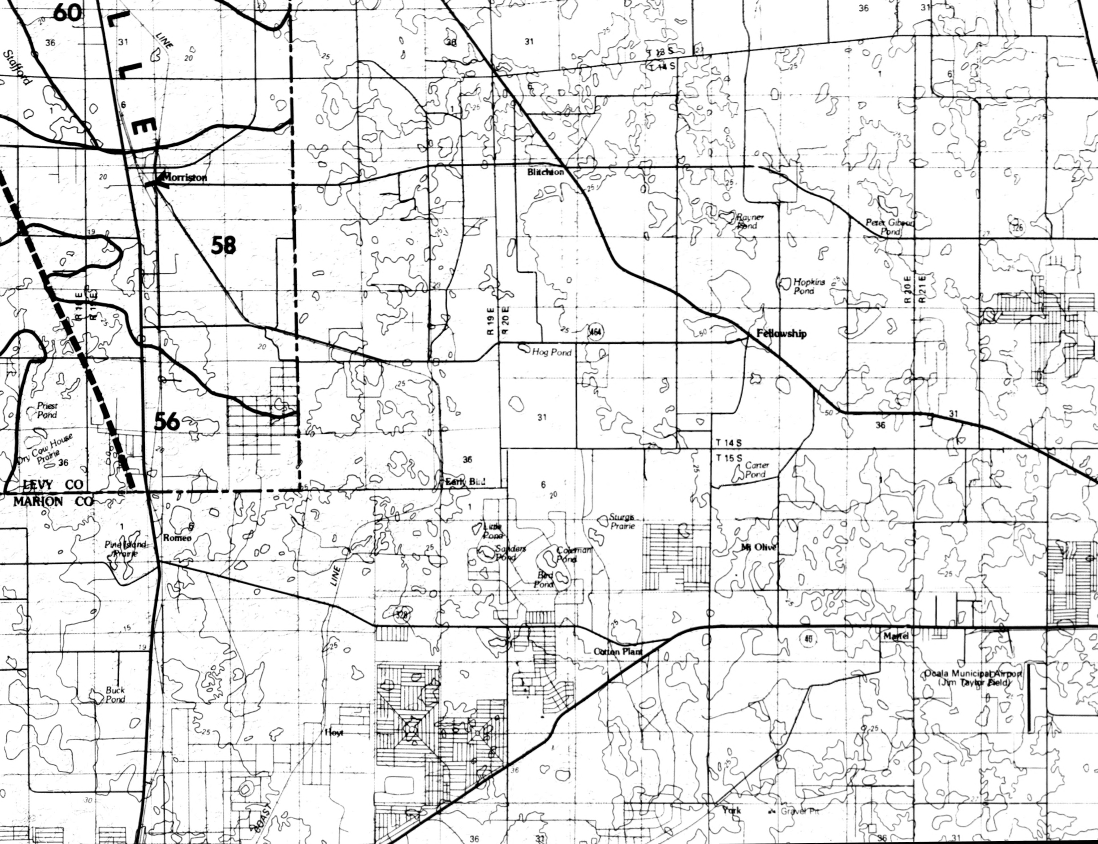
1984

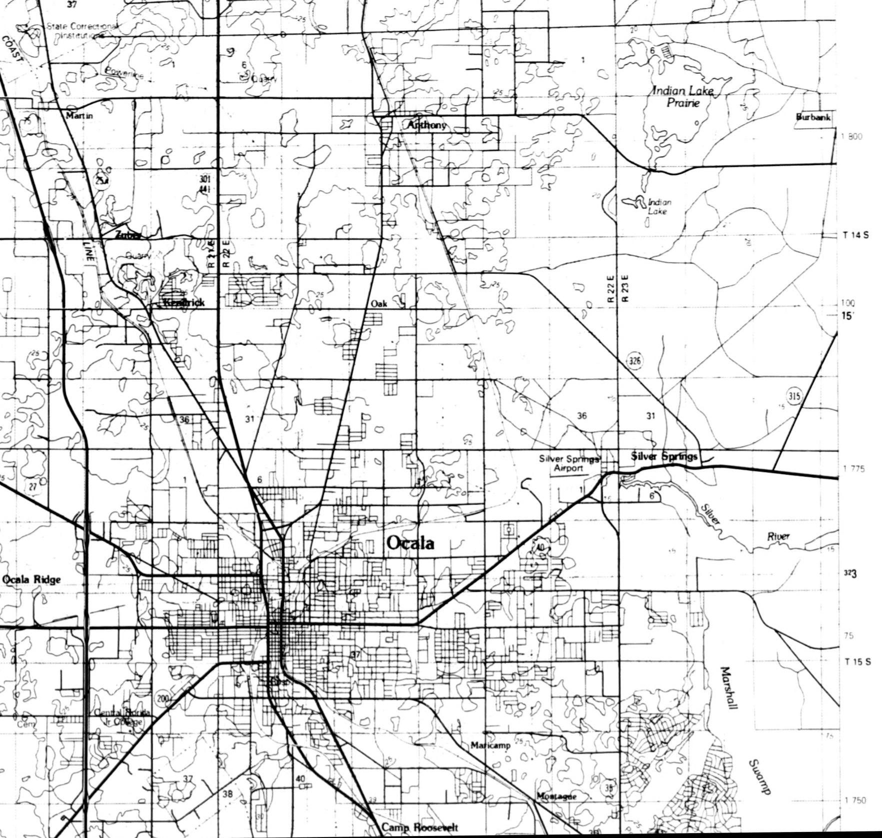
Produced by U.S. Fish and Wildlife Service and Minerals Management Service

Projection and 10,000 meter grid, zone 17: Universal Transverse Mercator
25,000 foot grid ticks based on Florida coordinate system, west zone


Ellzey
36
31
5
36
31
36
64
6
1
51
51
1
5
6
1
5
1 800
324
100
64
T 14 S
15′
61
R 13 E
R 14 E
345
5
Rosewood
57
24
5
62
C
O
A
S
T
A
L
Creek
Creek
Run
62
Cabin Slough
Creek
Otter
62
36
38
Sumner
31
31
31
51
36
1 775
5
11
51
GULF
HAMMOCK
R 13 E
R 14 E
R 14 E
R 15 E
R 15 E
1
6
6
Jacks
Rocky
75
Kelly
52
Waccasassa
Staffords Island
323
T 15 S
Cow
18
S
W
Live Oak Key
Sheephead
Creek
Tripod Point
Kelly Creek Point
South Point
Compass Point
18
1 750
WAC


W L A N D S
R I D G E
T 13 S
T 14 S
T 15 S
R 16 E
R 17 E
R 18 E
61
64
51
62
56
58
10
38
Mule
River
Creek
Gulf Hammock
Wekiva
Cow
Creek
Bullfrog
Sand
Slough
Tenmile
Creek
Lebanon Station
SEABOARD
Big
Wolf
Arbor
Sand
Slough
Rose Pond
Fourmile Pond
Kitchen Cow House Pond
Little Bonable Lake
Sand Pond
Lake
337
326
328
19
464
121
36
31
6
1
25
15
10


60
L
L
E
Y
LINE
Stafford
58
Morriston
Blitchton
T 13 S
T 14 S
Rayner Pond
Peter Gibson Pond
326
Hopkins Pond
R 20 E
R 21 E
R 19 E
R 20 E
464
Fellowship
Hog Pond
Priest Pond
56
Dry Cow House Prairie
LEVY CO
MARION CO
T 14 S
T 15 S
Carter Pond
Early Bird
Sturgis Prairie
Little Pond
Sanders Pond
Coleman Pond
Bird Pond
Romeo
Pine Island Prairie
Mt Olive
LINE
328
40
Martel
Cotton Plant
Ocala Municipal Airport (Jim Taylor Field)
Buck Pond
Hoyt
COAST
York
Gravel Pit


37
State Correctional Institution
COAST
Powerline
Quarry
Indian Lake Prairie
Martin
Anthony
Burbank
1 800
301
441
Indian Lake
Zuber
LINE
Quarry
R 21 E
R 22 E
R 22 E
R 23 E
T 14 S
Kendrick
Oak
100
15'
326
315
36
31
36
31
Silver Springs Airport
Silver Springs
1 775
27
6
1
1
6
Silver
River
Ocala
40
Ocala Ridge
323
75
T 15 S
37
Marshall
200
Central Florida Jr College
Cem
Maricamp
Swamp
37
40
38
Montague
35
1 750
Camp Roosevelt
25
20
15

Produced by U.S. Fish and Wildlife
Service and Minerals Management Service

Projection and 10,000 meter grid, zone 17: Universal Transverse Mercator
25,000-foot grid ticks based on Florida coordinate system, west zone

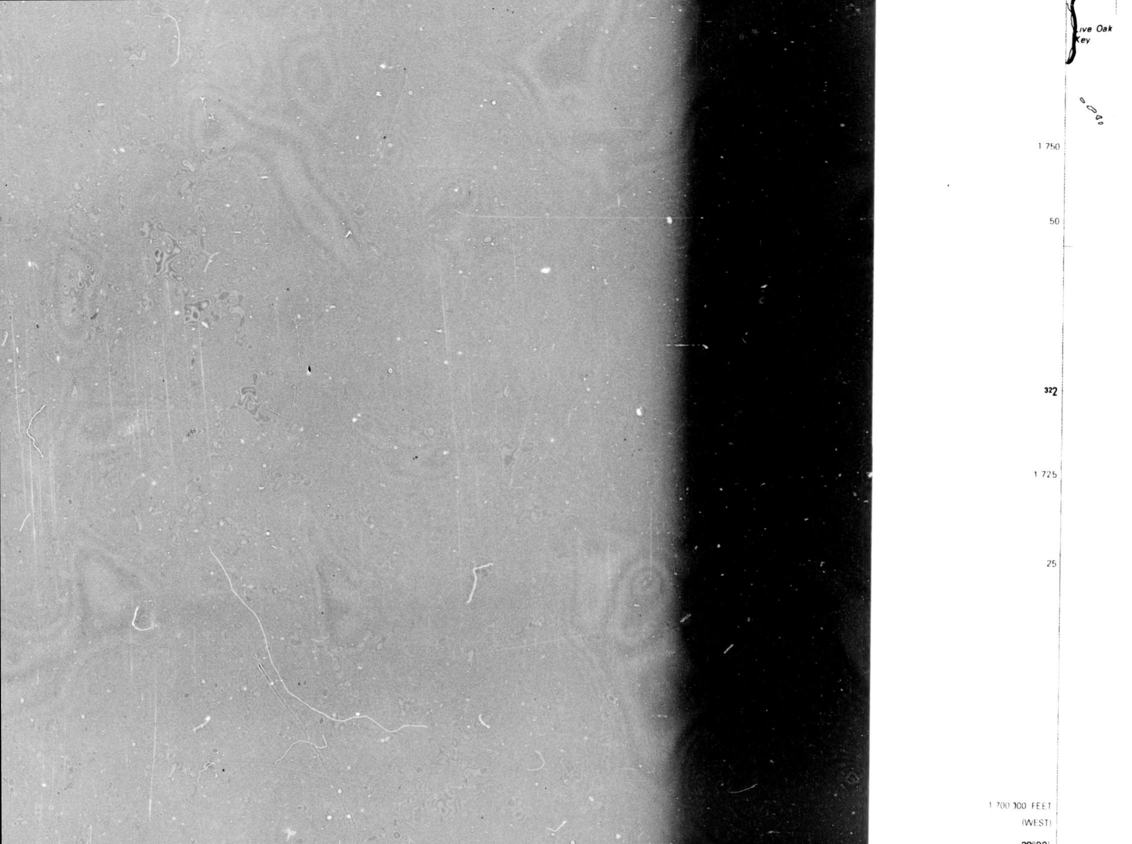
Overlay material compiled in 1983 from latest available data obtained from Federal, State and Local government agencies and other sources.

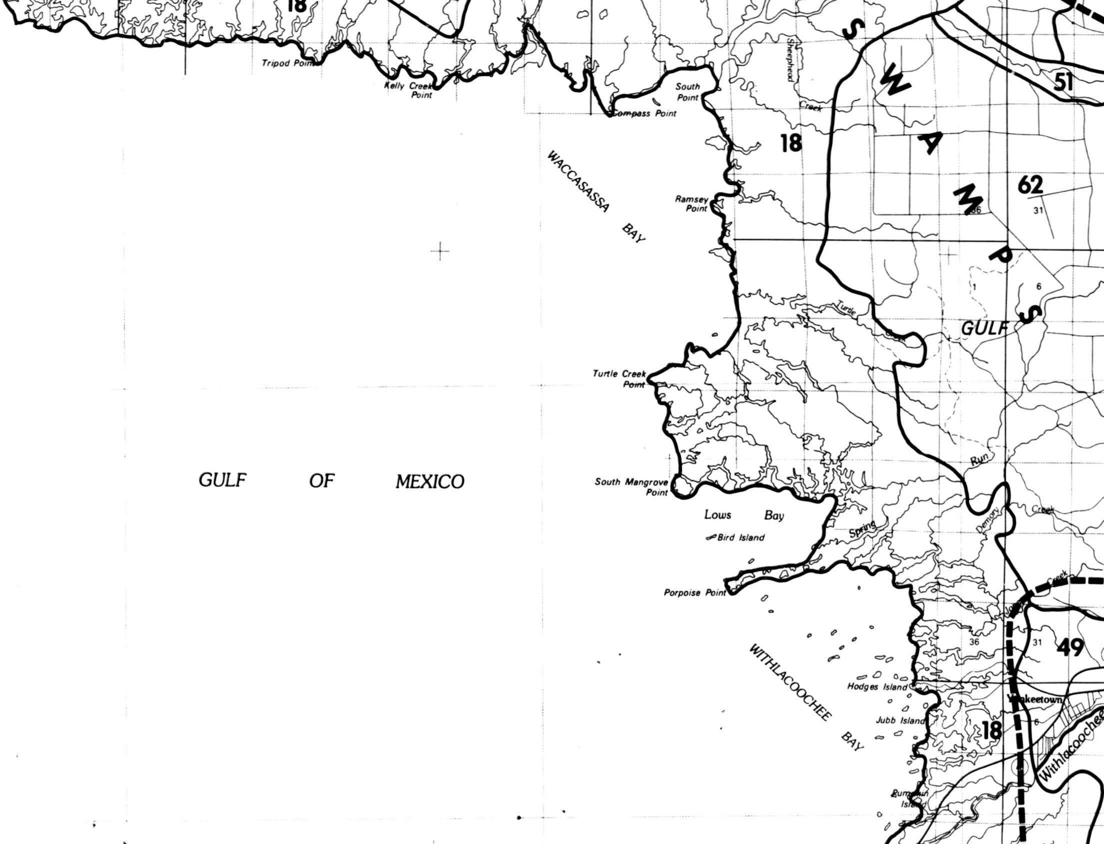
MAJOR SURFACE LANDFORMS

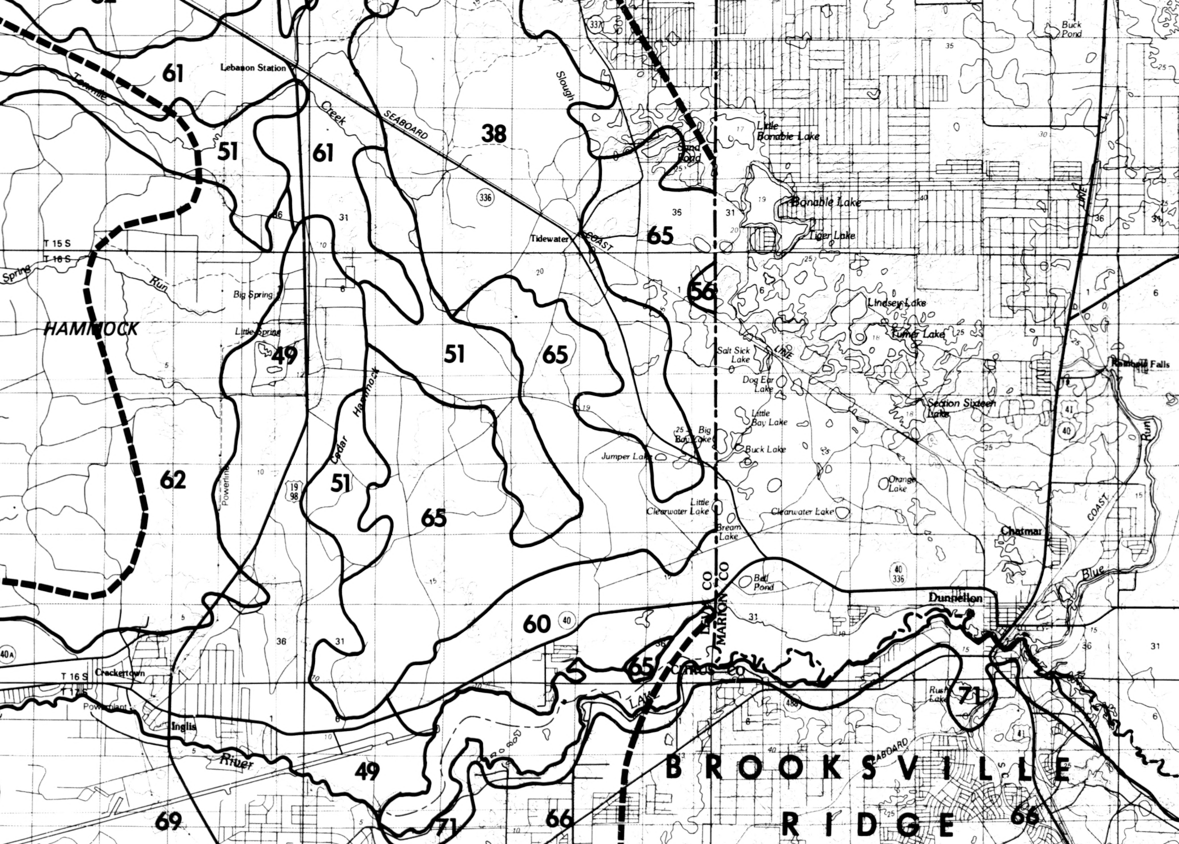
Western Highlands
Escambia Valley
Gulf Coastal Lowlands
Gulf Barrier Chain
Marianna Lowlands
New Hope Ridge
Greenhead Slope
Fountain Slope
Grand Ridge
Northern Highlands
Coastal Swamps
Brooksville Ridge
Western Valley

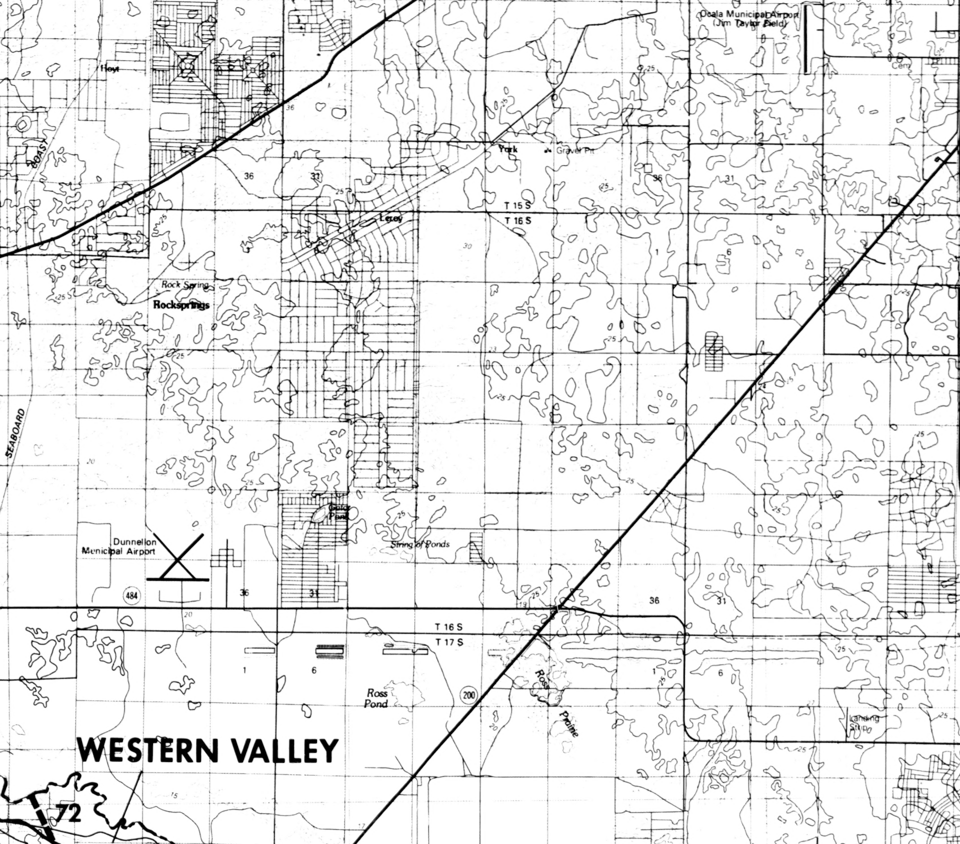
SOIL ASSOCIATIONS

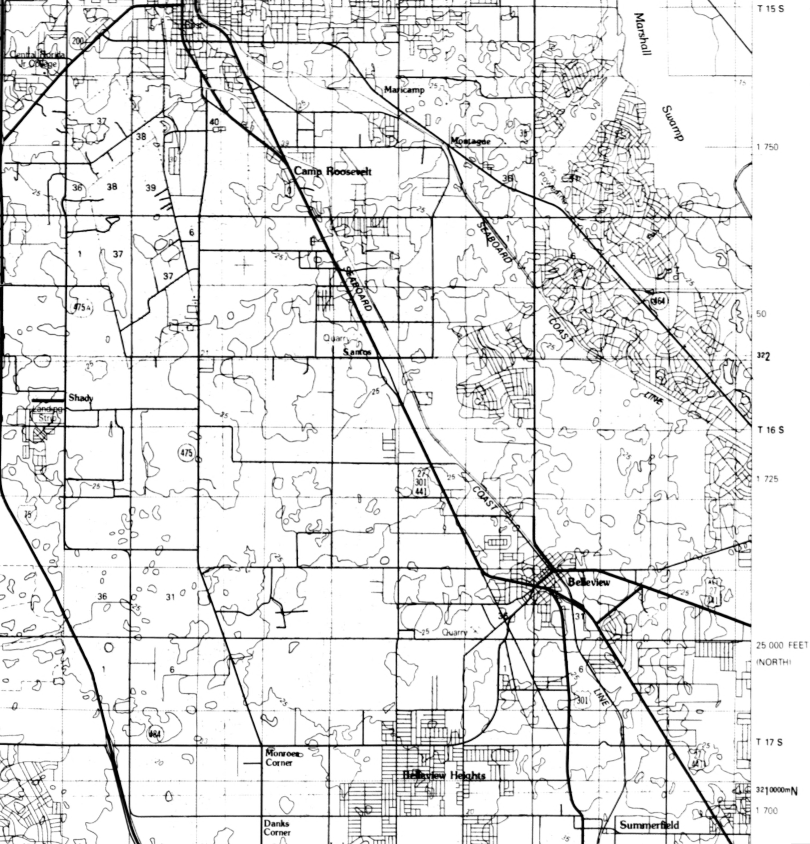
1. Lakeland-Eustis-Lakewood Association
2. Lakeland, Ruston, and Norfolk-Sunsweet, Carnegie and Cuthbert Association
3. Red Bay-Blakely Association
4. Tifton-Carnegie-Faceville Association
5. Norfolk-Ruston-Savannah Association
6. Tifton-Irvington-Lynchburg Association
7. Klej-Leon Association
8. Huckabee-Kalmia-Izagota Association
9. Coastal Dune Land and Beach-Tidal Marsh Association
10. Plummer-Rutlege-Alluvial Land-Fresh Water Swamp-Dorovan-Pamlico Association
11. Lakeland-Paola-Kureb-St. Lucie-Rimini Association
12. Lakeland-Troup Association
13. Troup-Orangeburg Association
14. Dothan-Orangeburg Association
15. Red Bay-Lucy Association
16. Chipley-Scranton Association
17. Johns-Leaf Association


Live Oak Key
1 750
50
322
1 725
25
1 700 000 FEET
(WEST)


18
Tripod Point
Kelly Creek Point
Compass Point
South Point
Sheephead
Creek
18
S
W
A
M
P
S
51
62
31
36
WACCASASSA BAY
Ramsey Point
1
6
Turtle
GULF
Turtle Creek Point
Run
South Mangrove Point
GULF OF MEXICO
Lows Bay
Bird Island
Spring
Demory
Creek
Porpoise Point
Creek
36
31
49
WITHLACOOCHEE BAY
Hodges Island
Yankeetown
Jubb Island
1
18
6
Withlacoochee
Pumpkin Island


61
Lebanon Station
Tennille
Creek
SEABOARD
Slough
38
337
Buck Pond
51
61
336
Little Bonable Lake
Sand Pond
Bonable Lake
Tiger Lake
Tidewater
COAST
65
T 15 S
T 16 S
Spring
Run
Big Spring
56
Lindsey Lake
Turner Lake
HAMMOCK
Little Spring
49
51
65
LINE
Salt Sick Lake
Dog Ear Lake
Rainbow Falls
Section Sixteen Lake
41
40
Hammock
Little Bay Lake
Big Bay Lake
Buck Lake
Jumper Lake
Cedar
62
Powerline
19
98
51
Orange Lake
65
Little Clearwater Lake
Clearwater Lake
COAST
Bream Lake
Chatmar
Run
LEVY CO
MARION CO
Bell Pond
40
336
Blue
Dunnellon
60
40
40A
T 16 S
T 17 S
Crackertown
Powerplant
65
CITRUS CO
LAKE
Rush Lake
71
488
Inglis
River
49
41
SEABOARD
BROOKSVILLE
RIDGE
69
71
66
66

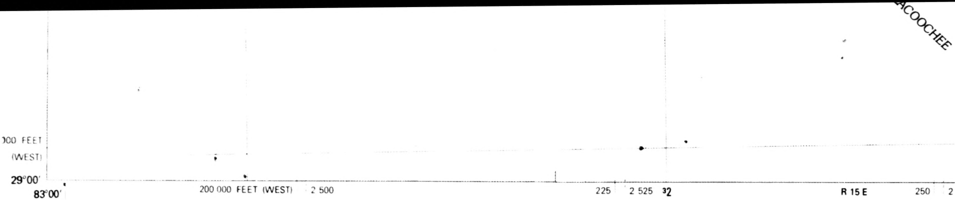

Ocala Municipal Airport
(Jim Taylor Field)
Cem
Hoyt
COAST
36
York
Gravel Pit
36
31
36
31
25
27
T 15 S
T 16 S
Leroy
30
1
6
Rock Spring
Rocksprings
23
SEABOARD
20
Gator Pond
String of Ponds
Dunnellon
Municipal Airport
484
36
31
36
31
19
T 16 S
T 17 S
1
6
1
6
Ross Pond
200
Ross Prairie
Landing Strip
WESTERN VALLEY
72
15
17


T 15 S
Marshall
Swamp
Central Florida Jr College
200
Maricamp
Montague
Camp Roosevelt
1 750
SEABOARD
SEABOARD
COAST
LINE
COAST
LINE
475A
Quarry
Santos
50
322
Shady
Landing Strip
475
T 16 S
27
301
441
1 725
75
464
Belleview
Quarry
25 000 FEET
(NORTH)
301
484
T 17 S
Monroe Corner
Belleview Heights
3210000mN
1 700
Danks Corner
Summerfield

Tifton-Irvington-Lynchburg Association
Klej-Leon Association
Huckabee-Kalmia-Izagota Association
Coastal Dune Land and Beach-Tidal Marsh Association
Plummer-Rutlege-Alluvial Land-Fresh Water
Swamp-Dorovan-Pamlico Association
Lakeland-Paola-Kureb-St. Lucie-Rimini Association
Lakeland-Troup Association
Troup-Orangeburg Association
Dothan-Orangeburg Association
Red Bay-Lucy Association
Chipley-Scranton Association
Johns-Leaf Association
Salt Water Marsh-Bayvi-Dirego Association
Fuquay-Lucy-Troup Association
Dothan-Orangeburg-Tifton Association
Lakeland-Faceville Association
Chipley-Albany-Leon Association
Ardilla-Leefield-Stilson Association
Tifton-Faceville-Greenville Association
Norfolk-Ruston-Goldsboro Association
Tifton-Faceville-Marlboro Association
Lakeland-Cuthbert-Shubuta Association
Blanton-Klej-Plummer Association
Goldsboro-Lynchburg-Rains Association
Kureb-Resota-Mandarin Association
Lakeland-Foxworth-Centenary Association
Leefield-Albany-Stilson Association
Hurricane-Chipley-Albany Association
Pottsburg-Leon-Rutlege Association
Plummer-Pelham Association
Rutlege-Allanton-Pickney Association
Chipley-Albany-Stilson Association
Leon-Albany-Plummer-Chipley-Osier Association
Dunbar-Bladen Association
Dothan-Stilson-Lucy Association
Ardilla-Leefield-Pansey Association
Chipley-Albany-Blanton Association
Leon-Felda-Matmon Association
Dothan-Orangeburg-Red Bay Association
Alpin-Blanton-Eustis Association
Orangeburg-Lucy-Dothan Association
Chipley-Albany-Plummer Association
Leon-Mascotte-Rutlege Association
Broward, var.-Matmon-Osier Association
Manatee, var.-Felda, Var.-Copeland, Var. Association
Fresh Water Swamp, Shallow to Limestone Association
Salt Water Marsh and Swamp-Coastal Dunes Association
Alpin-Blanton Association
Chipley-Blanton-Swamp Association
Adamsville, var.-Chiefland-Blanton Association
Candler-Apopka Association
Jonesville-Chiefland-Archer Association
Arredondo-Gainesville Association
Hernando-Archer-Chiefland Association
Sparr-Lochloosa-Tavares Association
Adamsville-Osier Association
Bushnell-Wabasso-Felda Association
Blichton-Flemington-Kanapaha Association
Leon-Mascotte-Surrency Association
Lynne-Pomona-Pompano Association
Candler-Paola-Tavares Association

1.700

MICROCOPY RESOLUTION TEST CHART
NBS 1010a
(ANSI and ISO TEST CHART No. 2)
1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
4.5
5.0
5.6
6.3


ACOOCHEE
000 FEET
(WEST)
29°00'
83°00'
200 000 FEET (WEST)
2 500
225
2 525
32
R 15 E
250
2

THE FLORIDA ECOLOGICAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE, DIVISION OF BIOLOGICAL SERVICES, NATIONAL COASTAL ECOSYSTEMS TEAM (FWS/OBS - 82/47) AND THE MINERALS MANAGEMENT SERVICE FOR COASTAL PLANNERS, DECISION MAKERS, AND THE GENERAL PUBLIC, TO DETERMINE AND EVALUATE CHANGE AND TO RESOLVE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE REQUIREMENTS, AND THE MAINTENANCE OF ECOLOGICAL DIVERSITY. THE STUDY AREA INCLUDES THE COASTAL COUNTIES: ESCAMBIA, SANTA ROSA, OKALOOSA, WALTON, WASHINGTON, BAY, CALHOUN, GULF, FRANKLIN, WAKULLA, JEFFERSON, TAYLOR, DIXIE, LEVY, CITRUS AND HERNANDO, AND EXTENDS OFFSHORE APPROXIMATELY 10 MILES. THERE IS NO ATTEMPT, IN THE DESIGN OR PRODUCTS OF THIS STUDY, TO DEFINE THE LIMITS OF PROPRIETARY JURISDICTION OF ANY FEDERAL, STATE, OR LOCAL GOVERNMENT TO ESTABLISH THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF GOVERNMENT AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE MANY SOURCES CONTAINED GENERALIZED LOCATIONS OF RESOURCES AND OTHER MAPPED FEATURES, THE USER SHOULD NOT RELY ON THESE MAPS FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS.

PRIMARY SOURCES OF MAPPED INFORMATION:

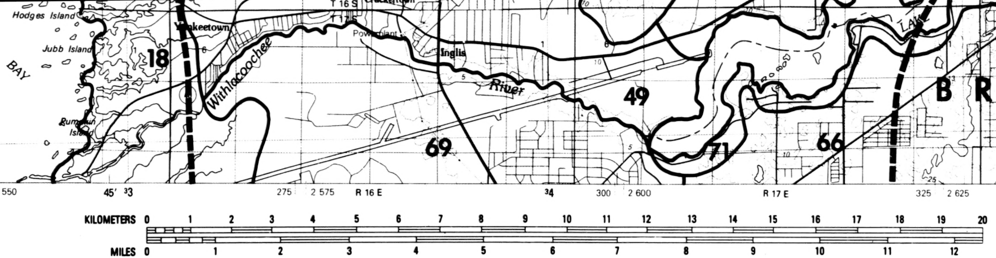
LANDFORMS: Physiographic Map of Florida,
State Bureau of Geology, 1980.

SOILS: General Soils Atlas of Florida,
Division of State Planning, 1975.
General Soils Atlas of Florida, U.S.
Soil Conservation Service, 1982.

ACTIVE DUNES: Black and White Aerial
Photography, 1:80,000 Scale, Mark Hurd
Aerial Surveys Inc., 1980.
Topographic Maps, 1:24,000 Scale, U.S.
Geological Survey, various dates.

GEOLOGIC FAULTS: Map of Escambia and
Santa Rosa Counties Showing Contours on top
of the Lower Limestone of the Floridan
Aquifer, State Bureau of Geology, 1965.

FOR COMPLETE REFERENCES SEE MAP NARRATIVE


Hodges Island
Jubb Island
BAY
Rumgun Island
Yankeetown
T 16 S
T 17 S
Powerplant
Inglis
Withlacoochee
River
LAKE
18
49
69
71
66
B R
550
45′ 33
275
2 575
R 16 E
34
300
2 600
R 17 E
325
2 625
KILOMETERS
MILES

10. Plummer-Rutlege-Alluvial Land-Fresh Water Swamp-Dorovan-Pamlico Association: Nearly level, poorly drained soils with a thick surface layer overlying a loamy subsoil and very poorly drained soils that are sandy throughout.

11. Lakeland-Paola-Kureb-St. Lucie-Rimini Association: Nearly level to steep, excessively drained soils, sandy throughout.

18 Salt Water Marsh-Bayvi-Dirego Association: Nearly level very poorly drained soils subject to frequent flooding by tidal waters.

38. Leon-Albany-Plummer-Chipley-Osier Association: Nearly level, poorly drained sandy soils with weakly cemented sandy subsoil, and poorly drained soils with very thick sandy layers over loamy subsoil.

49. Broward, var.-Matmon-Osier Association: Nearly level, somewhat poorly drained sandy soils, shallow to limestone and somewhat poorly drained sandy soils with clayey subsoils, shallow to limestone and poorly drained soils sandy throughout.

50. Manatee, var.-Felda, Var.-Copeland, Var. Association: Nearly level, very poorly and poorly drained sandy soils with loamy subsoils, and very poorly drained sandy soils with loamy subsoils, shallow to limestone.

51. Fresh Water Swamp, Shallow to Limestone Association: Nearly level, very poorly drained soils, shallow to limestone, subject to prolonged flooding.

52. Salt Water Marsh and Swamp-Coastal Dunes Association: Nearly level, very poorly drained soils subject to frequent flooding by tidal waters, and somewhat excessively drained sandy soils.

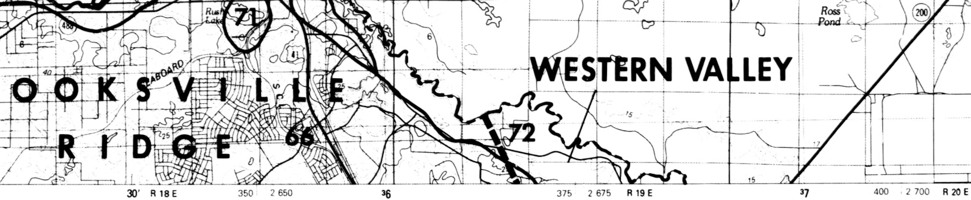
56. Candler-Apopka Association: Nearly level to sloping, excessively drained soils with very thick sandy layers over thin loamy or sandy loam lamella, and well drained soils with very thick sandy layers over loamy subsoil.

57. Jonesville-Chiefland-Archer Association: Nearly level to sloping, excessively drained soils with very thick sandy layers over loamy subsoil, and moderately well drained soils with loamy or clayey subsoils underlain by limestone.

58. Arredondo-Gainesville Association: Nearly level to sloping, well drained soils with very thick sandy layers over loamy subsoil, and well drained soils, sandy throughout.

59. Hernando-Archer-Chiefland Association: Nearly level to gently sloping, moderately well to well drained sandy soils with loamy or clayey subsoils underlain by limestone.

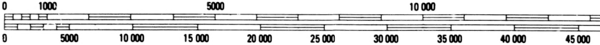
60. Sparr-Lochloosa-Tavares Association: Nearly level to sloping, somewhat poorly drained soils with very thick or


Rush Lake
71
488
6
40
SEABOARD
OOKSVILLE
RIDGE
25
66
WESTERN VALLEY
Ross Pond
200
15
72
17
30′ R 18 E
350 2 650
36
375 2 675 R 19 E
37
400 2 700 R 20 E

SCALE 1:100 000

1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND

CONTOUR INTERVAL 5 METERS


0
1000
5000
10 000
0
5000
10 000
15 000
20 000
25 000
30 000
35 000
40 000
45 000

sandy layers over loamy subsoil, and moderately well drained sandy soils.

61. Adamsville-Osier Association: Nearly level to gently sloping, somewhat poorly to poorly drained sandy soils.

62. Bushnell-Wabasso-Felda Association: Nearly level, somewhat poorly drained soils with thin sandy layers over a clayey subsoil layer underlain by limestone, and poorly drained sandy soils with a weakly cemented subsoil layer underlain by a loamy subsoil and poorly drained sandy soils with loamy subsoil.

63. Blichton-Flemington-Kanapaha Association: Nearly level to strongly sloping, poorly drained sandy soils with loamy or clayey subsoil, and poorly drained soils with very thick sandy layers over loamy subsoil.

64. Leon-Mascotte-Surrency Association: Nearly level, poorly drained sandy soils with weakly cemented sandy subsoil, and poorly drained sandy soils with a weak cemented sandy subsoil layer underlain by loamy subsoil and very poorly drained sandy soils with clayey subsoil.

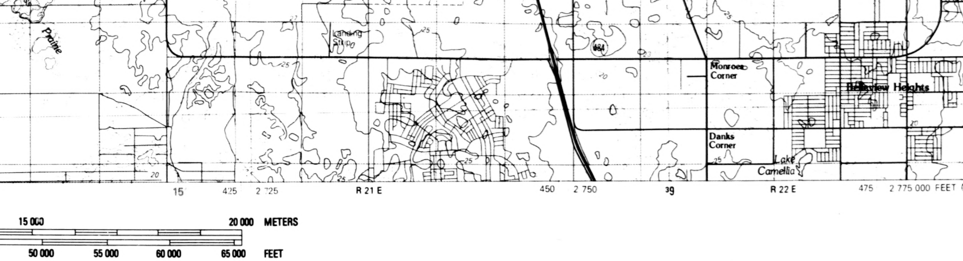
65. Lynne-Pomona-Pompano Association: Nearly level, poorly drained sandy soils with a weakly cemented sandy subsoil layer, underlain by loamy or clayey subsoil, and poorly drained sandy soils.

66. Candler-Paola-Tavares Association: Nearly level to sloping, excessively drained soils with very thick sandy layers over thin loamy or sandy loam lamella and excessively and moderately well drained soils, sandy throughout.

69. Broward-Boca Association: Nearly level, somewhat poorly drained sandy soils, underlain by limestone and poorly drained sandy soils with loamy subsoil underlain by limestone.

71. Myakka-Basinger Association: Nearly level, poorly drained sandy soils with weakly cemented sandy subsoil and poorly drained soils, sandy throughout.

72. Meggett, var.-Pompano Association: Nearly level, poorly drained soils with thin loamy layers over clayey subsoil and poorly drained soils, sandy throughout.


Prairie
Landing Strip
484
Monroes Corner
Bellview Heights
Danks Corner
Lake Camellia
25
20
15
425
2 725
R 21 E
450
2 750
39
R 22 E
475
2 775 000 FEET
15 000
20 000 METERS
50 000
55 000
60 000
65 000
FEET

E=__ft/yr BEACH EROSION AREA (Period of Record: 1957-1981; Univ. of West Florida, 1981)

A=__ft/yr BEACH ACCRETION AREA (Period of Record: 1957-1981; Univ. of West Florida, 1981)

■ GULF BARRIER ISLAND

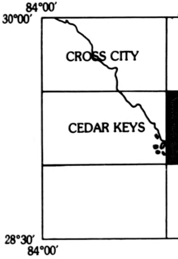
Ⓓ ACTIVE DUNE AREA

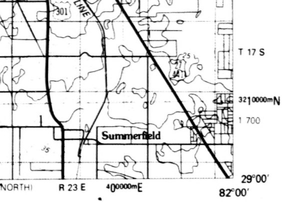
U/D NORMAL FAULT (Showing relative vertical movement, U, up, and D, down)

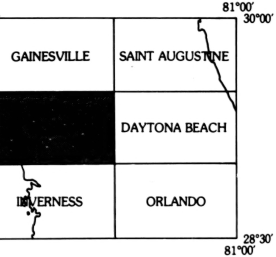
U/D SUB-SURFACE NORMAL FAULT (Showing relative vertical movement, U, up, and D, down)

STUDY AREA BOUNDARY

- Offshore
- Inland (County)
- Inland (State)


84°00′
30°00′
CROSS CITY
CEDAR KEYS
28°30′
84°00′

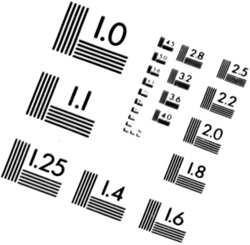

301
LINE
25
27
441
T 17 S
3210000mN
1 700
Summerfield
35
29°00′
NORTH)
R 23 E
400000mE
82°00′


81°00′
30°00′
GAINESVILLE
SAINT AUGUSTINE
DAYTONA BEACH
INVERNESS
ORLANDO
28°30′
81°00′

55. Adamsville, var.-Chiefland-Blanton Association
56. Candler-Apopka Association
57. Jonesville-Chiefland-Archer Association
58. Arredondo-Gainesville Association
59. Hernando-Archer-Chiefland Association
60. Sparr-Lochloosa-Tavares Association
61. Adamsville-Osier Association
62. Bushnell-Wabasso-Felda Association
63. Blichton-Flemington-Kanapaha Association
64. Leon-Mascotte-Surrency Association
65. Lynne-Pomona-Pompano Association
66. Candler-Paola-Tavares Association
67. Candler-Adamsville-Pompano Association
68. Arredondo-Kendrick Association
69. Broward-Boca Association
70. Panasoffkee-Bushnell Association
71. Myakka-Basinger Association
72. Meggett, var.-Pompano Association
73. Terra Ceia-Placid Association
74. Arredondo-Sparr-Kendrick Association
75. Candler-Lake Association
76. Masaryk Association
77. Nobleton-Blichton-Flemington Association
78. EauGallie-Wabasso-Basinger Association
79. Paisley-Floridana-Wabasso Association
80. Okeelanta-Aripeka-Terra Ceia Association
81. Homosassa-Weekiwachee-Lacoochee Association
82. Floridana-Basinger Association
83. Salt Water Marsh and Swamp Association
84. Fresh Water Swamp and Marsh Association
85. Blichton-Lochloosa-Kendrick Association
86. Paisley-Bushnell Association
87. Myakka-Pomello Association

MICROFILMED FROM
BEST AVAILABLE COPY

MICROCOPY RESOLUTION TEST CHART
NBS - 1010a
(ANSI and ISO TEST CHART No. 2)


1.0
4.5
2.8
2.5
5.0
3.2
5.6
1.1
3.6
2.2
4.0
2.0
1.25
1.8
1.4
1.6